



MEA2100-Beta-Screen-System

Technical Specifications

General Characteristics

Operating temperature	10 °C to 50 °C
Storage temperature	0 °C to 50 °C
Relative humidity	10 % to 85 %, non-condensing
Headstage	Up to 8 headstages can be connected
Dimensions (W x D x H)	125 mm x 100 mm x 22 mm
Weight with cable, w/o MEA chamber	444 g
Weight with cable, with MEA chamber	484 g
Length of the cable	3 m

Integrated Amplifier

Number of analog recording channels	5
Data resolution	24 bit
Signal input voltage range	± 70 mV
Bandwidth	DC to 10 kHz, software controlled
Sampling frequency per channel	Up to 50 kHz, software controlled
Input impedance	450 MW 10 pF
Intergated Stimulus Generator	Not in use in MEA2100-Beta-Screen-Systems!

Integrated Heating Element

Temperature sensor type	Pt 100 with four wire connection
Accuracy	± 0.1 °C
Signal Collector Unit (MCS-SCU)	Up to 2 Signal Collector Units can be connected
Dimension (W x D x H)	250 mm x 83 mm x 25 mm
Weight	300 g
4 Inputs for headstages (HS1 to HS 4)	Lemo connector, EPG.0B.307.HLN
1 Connector with 4 analog outputs for LED driver	Lemo connector, EPG.0B.307.HLN
Voltage output of each analog output	0 - 5 V
1 64-Channel Analog Out connector	68-pin MCS standard connector
Collector unit to interface board connector	External power over serial ATA (eSATAp)